

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 6,698,241 B1
APPLICATION NO. : 09/786668
DATED : March 2, 2004
INVENTOR(S) : Schwarzer

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Formal drawings are attached to replace the informal drawings printed in the patent

Column 10, line 36, change "press" to --pressing--

Delete the title page, showing an illustrative figure and substitute the attached title page.

Delete drawing sheet 1-8 and substitute the attached sheets containing figures 1-9.

Signed and Sealed this

Eighth Day of January, 2008



JON W. DUDAS
Director of the United States Patent and Trademark Office

(54) METHOD AND DEVICE FOR PRESSING A GOB

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(73) Assignee: Hermann Heye, Obernkirchen (DE)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(h) by 286 days.

(21) Appl. No.: 09/786,668

(22) PCT Filed: Jul. 23, 2000

(86) PCT No.: PCT/EP00/07088

§ 371 (c)(1).

(2), (4) Date: Mar. 8, 2001

(87) PCT Pub. No.: WO01/09049

PCT Pub. Date: Feb. 8, 2001

(30) Foreign Application Priority Data

Jul. 30, 1999 (DE) 199 35 866

(51) Int. Cl. 7 C03B 11/06; C03B 11/16

(52) U.S. Cl. 65/29.12; 65/76; 65/79;

65/158; 65/160; 65/229; 65/362

(58) Field of Search 65/29.12, 29.18, 65/76, 79, 158, 160, 229, 323, 362

(56) References Cited

U.S. PATENT DOCUMENTS

424,524 A * 4/1890 Washington 65/177

781,539 A * 1/1905 Marsh 65/209

1,670,821 A * 5/1928 Pawling et al. 65/229

4,336,050 A 6/1982 Northup 65/82

4,411,681 A 10/1983 Northup 65/77

4,662,923 A	*	5/1987	Vajda et al.	.....	65/29.15
4,662,928 A	*	5/1987	Dauer	.....	65/307
5,236,485 A	*	8/1993	Leweringhaus et al.	....	65/29.1
5,318,616 A	*	6/1994	Keller	.....	65/158

FOREIGN PATENT DOCUMENTS

DE	32 32 288 C1	10/1983	.....	C03B/9/193
FP	0 327 240 A1	8/1980	.....	C03B/9/40
GB	2 178 421 A	2/1987	.....	C03B/5/26

* cited by examiner

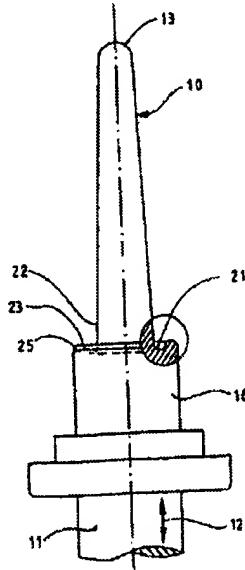
Primary Examiner—Sean Vincent

(74) Attorney, Agent, or Firm—Synnestvedt & Lechner
I.I.P

(57) ABSTRACT

Method and apparatus for pressing a parison. A parison mold is composed of neck tool halves and parison mold halves. A gob of molten glass had first been introduced through an upper loading orifice into a cavity of the parison mold, while a pressing plunger was located in a lower loading position. An assembly consisting of a pressing element, a guide sleeve and a piston-cylinder unit was introduced into the loading orifice. Subsequently the pressing plunger was raised from its loading position into the illustrated upper end operating position until its annular end face had moved into position against a stop surface of the neck tool. Following the preliminary pressing process a neck chamber in the cavity is still free from molten glass. It is only at this point that the pressing element exerts pressure on a base of the parison which is being produced. The molten glass is also pressed into the hitherto still free neck chamber of the cavity. The finish-pressing process of the parison is thus completed and the parison mold can be opened for the purpose of transferring the parison into a finish-forming station.

23 Claims, 8 Drawing Sheets

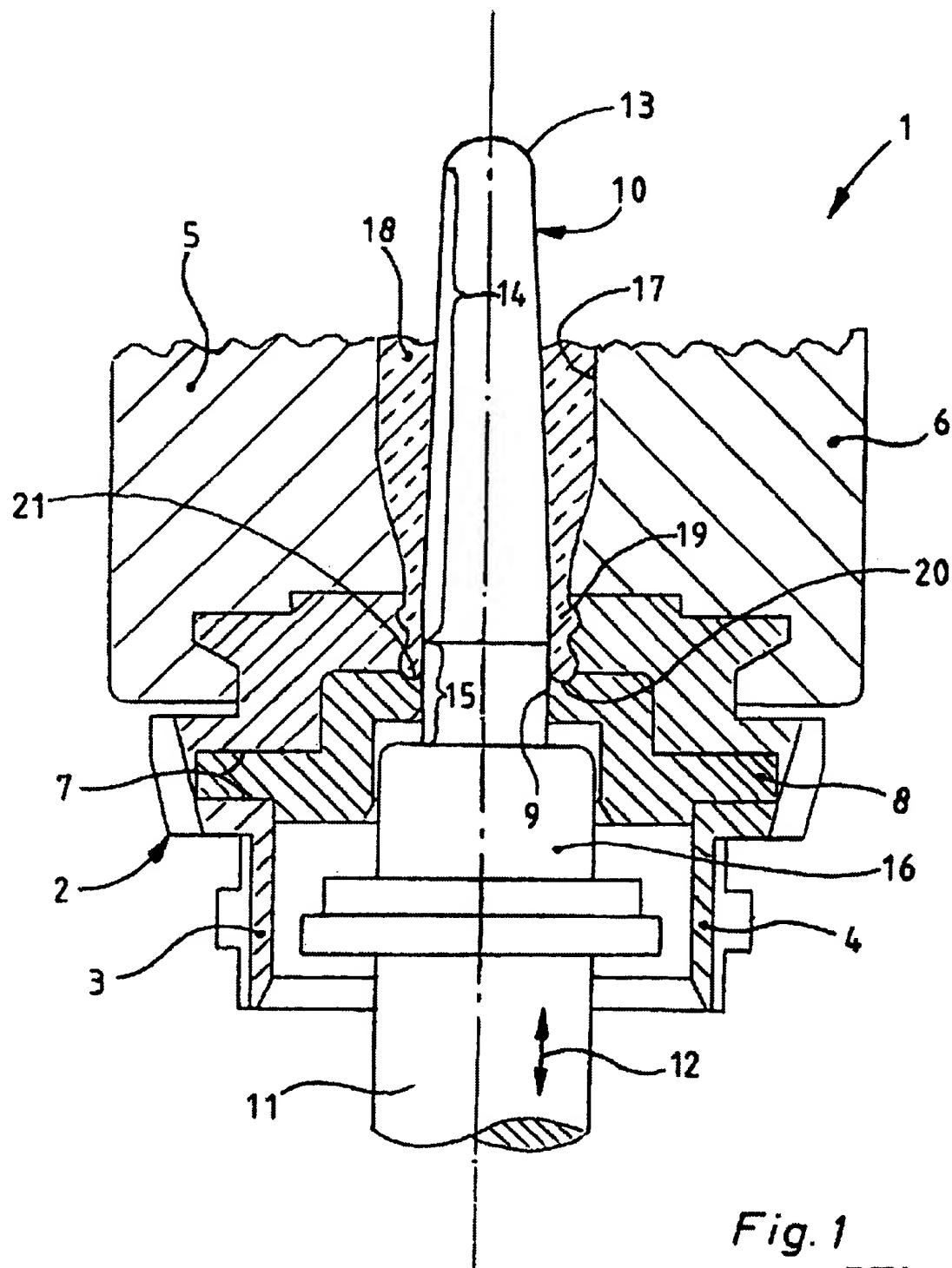


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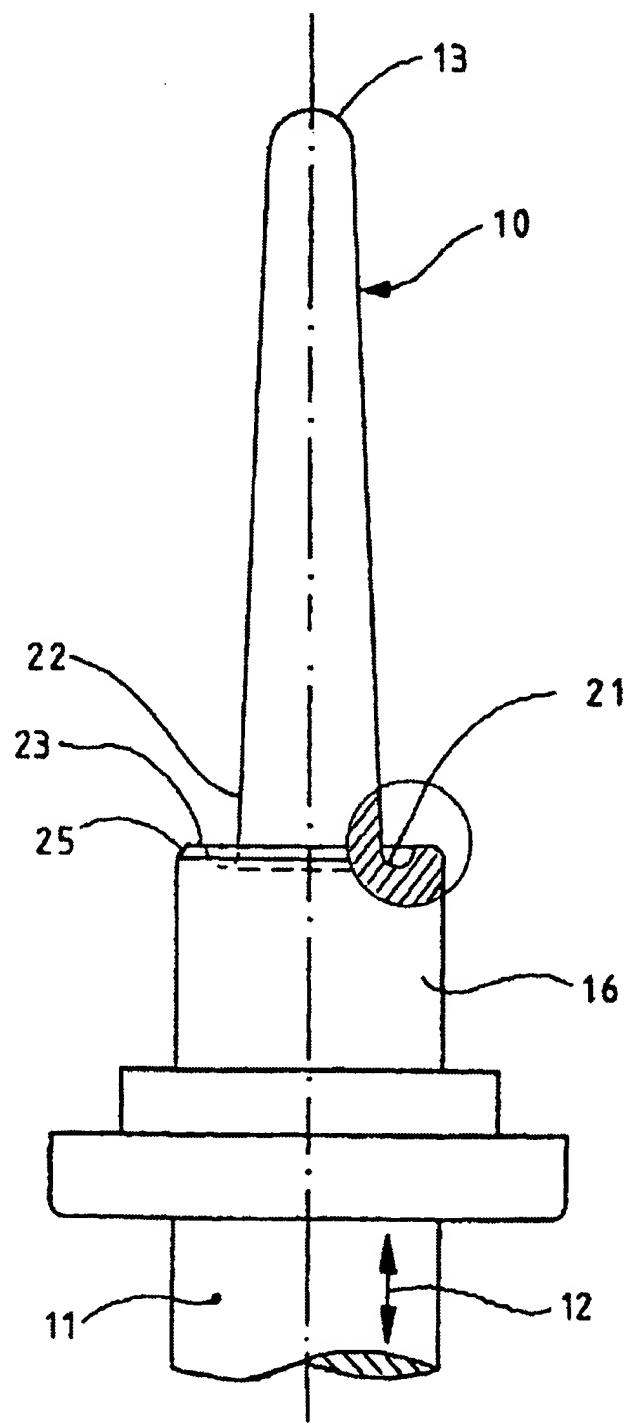
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Fig. 2



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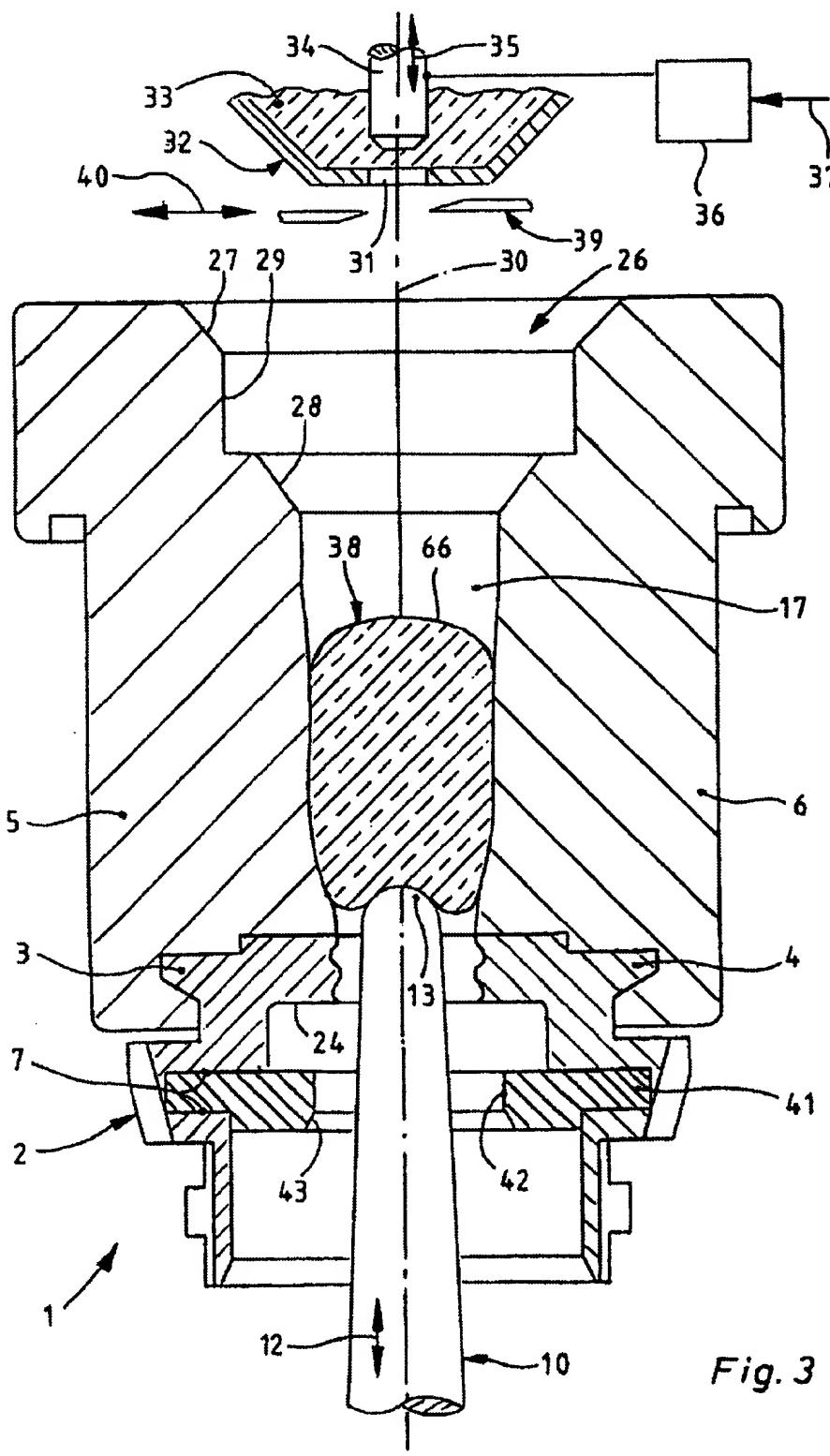


Fig. 3

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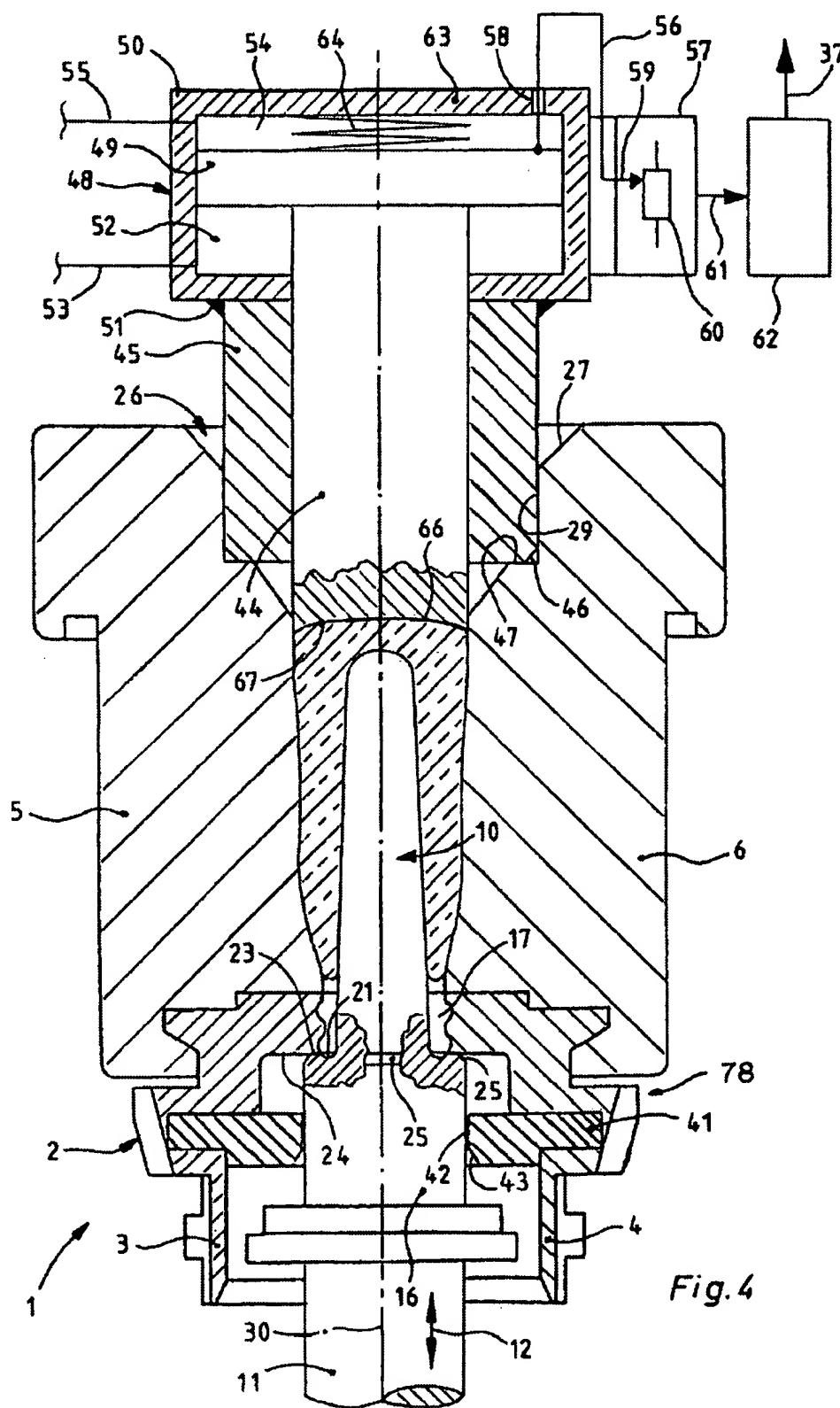


Fig. 4

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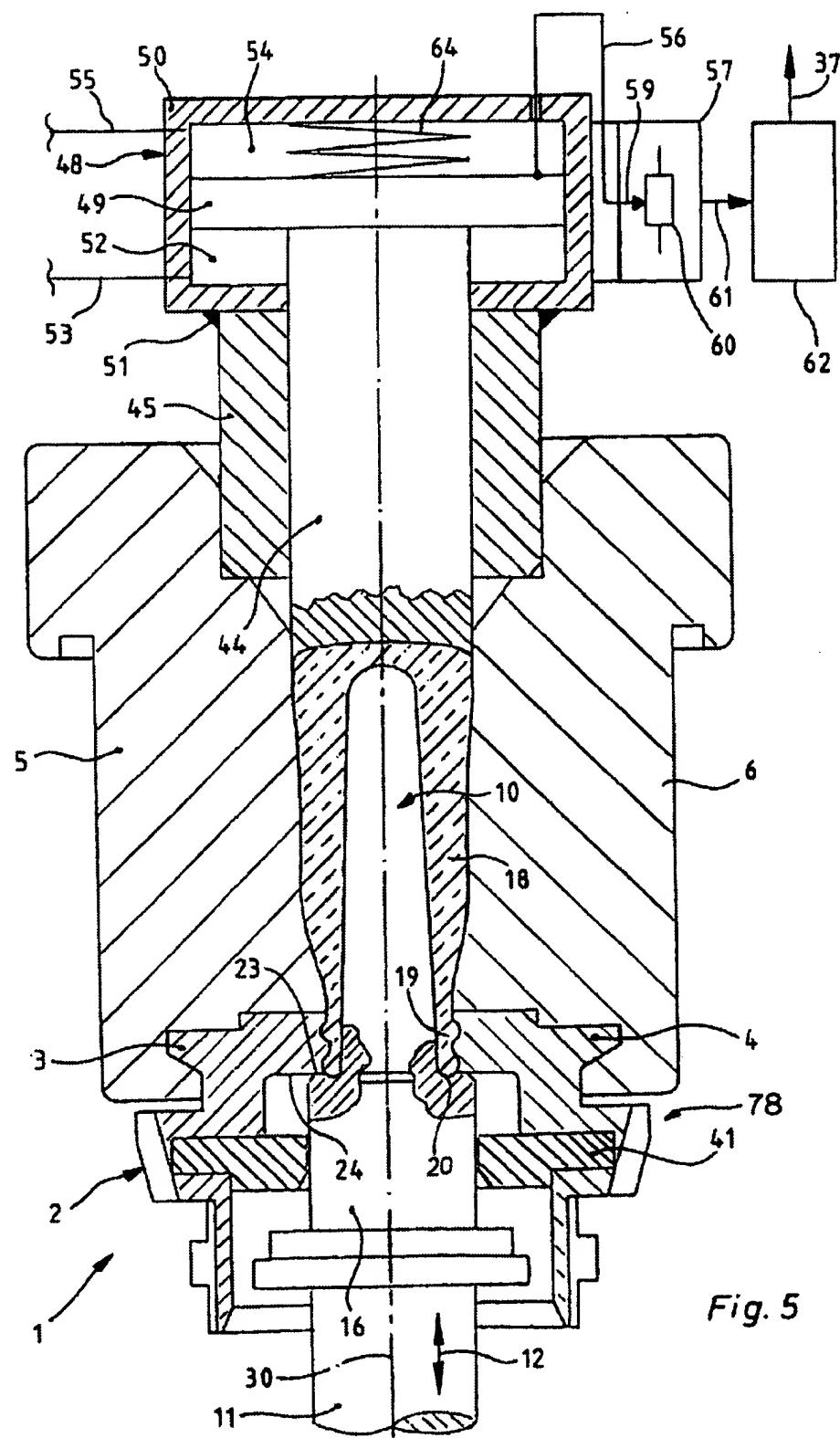


Fig. 5

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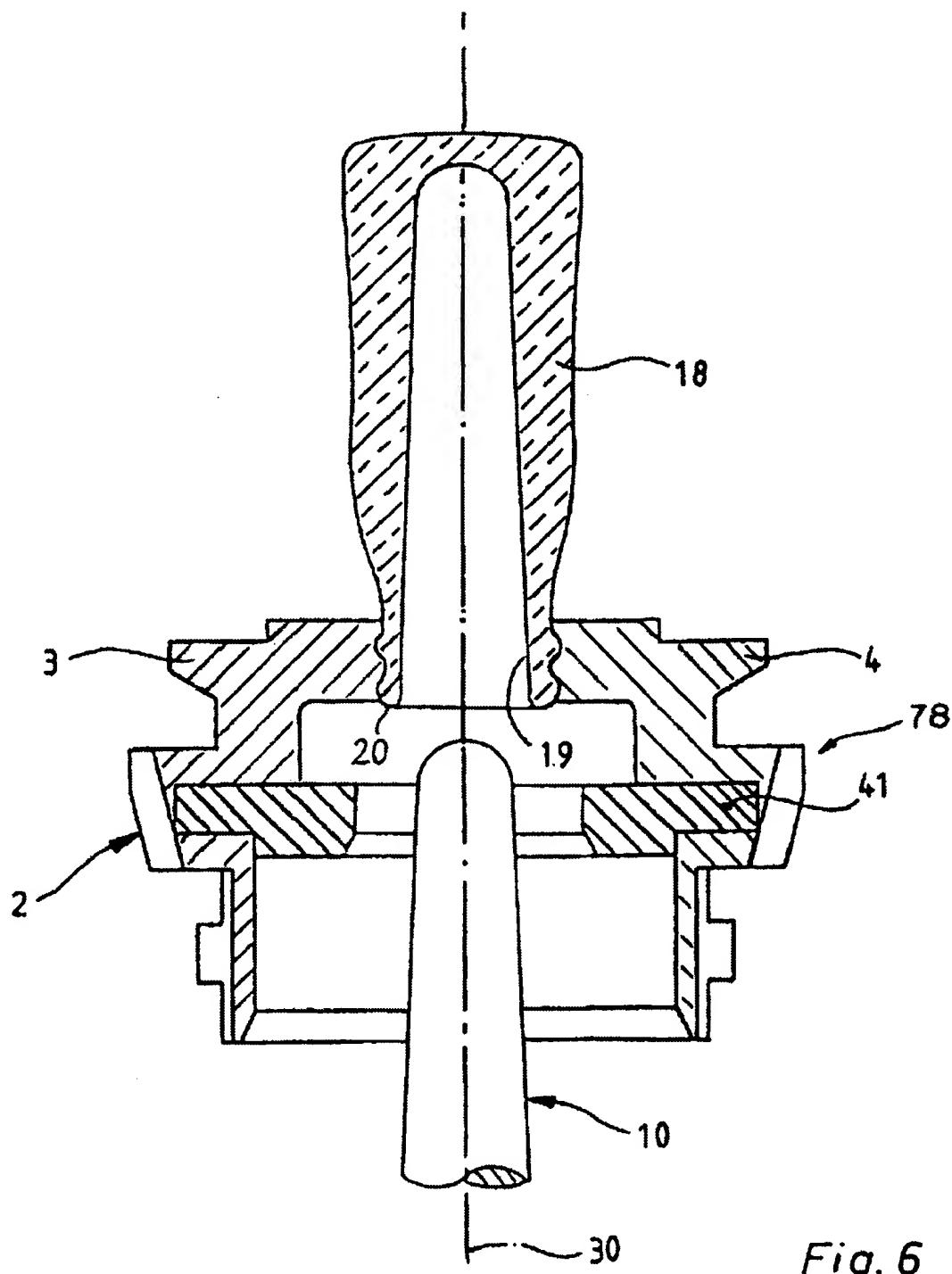


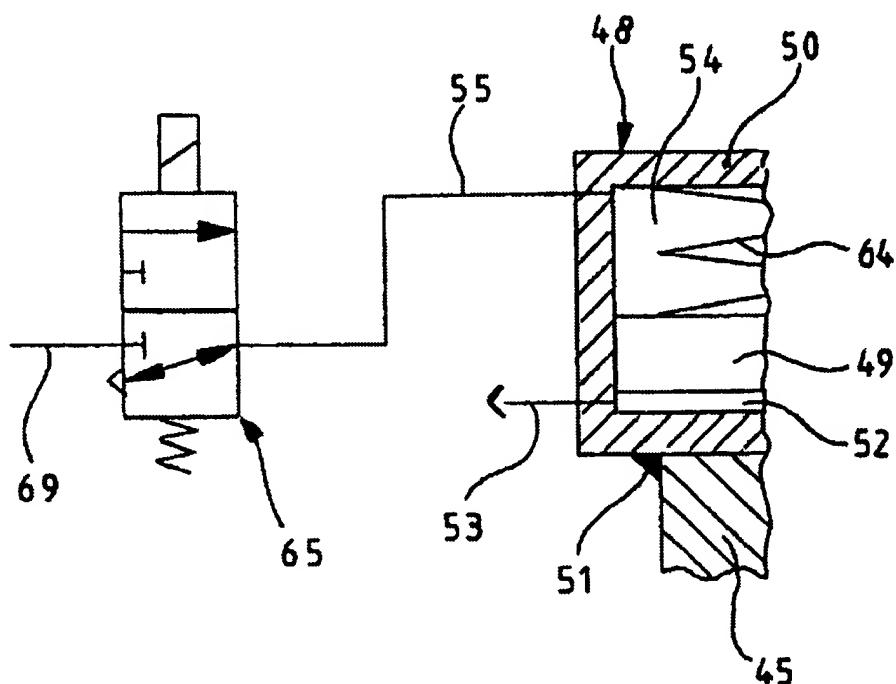
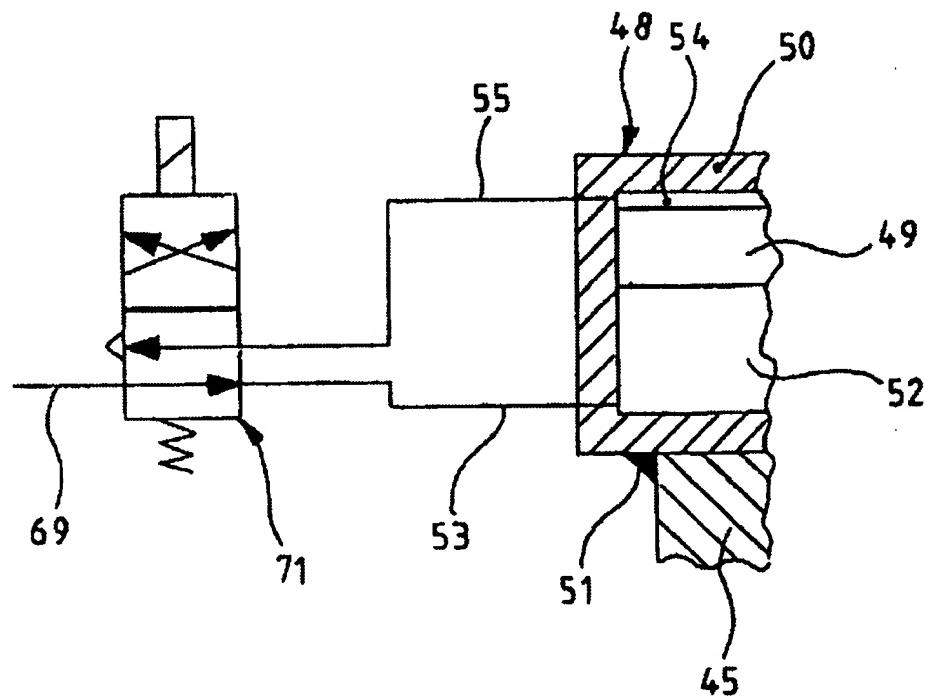
Fig. 6

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Fig. 7*Fig. 8*

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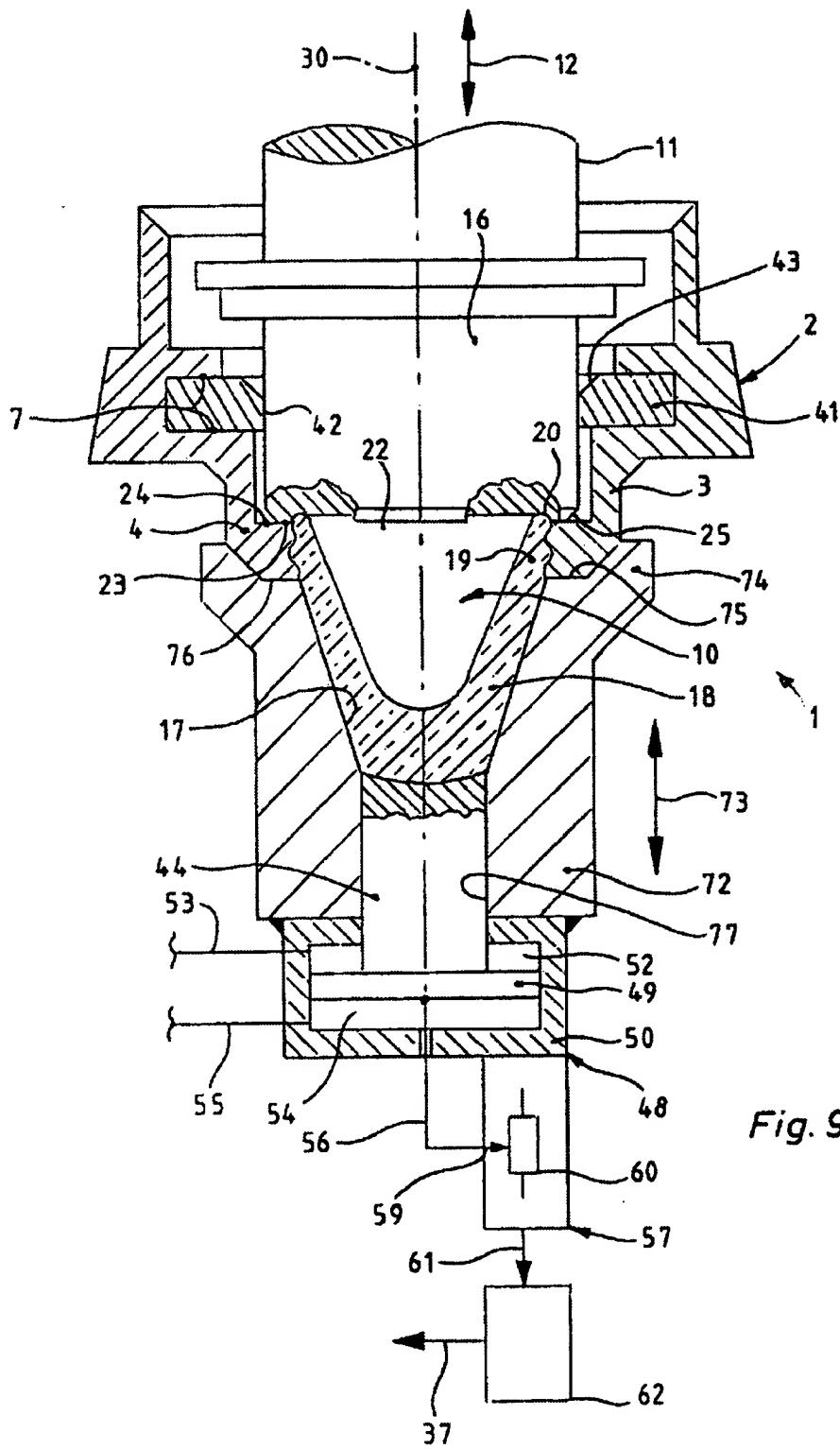


Fig. 9